# VivaFix™ Cell Viability Assays

Bio-Rad's VivaFix Cell Viability Assays provide a sensitive measurement for determining the viability of mammalian cells by flow cytometry and microscopy.

## Key Benefits of VivaFix Cell Viability Assays

- Optimal discrimination between dead and live cell populations
- Compatible with cell fixation
- 8 different excitation/emission wavelength combinations to fit the most demanding multicolor experiments

**Visit bio-rad.com/web/vivafix for more information.**

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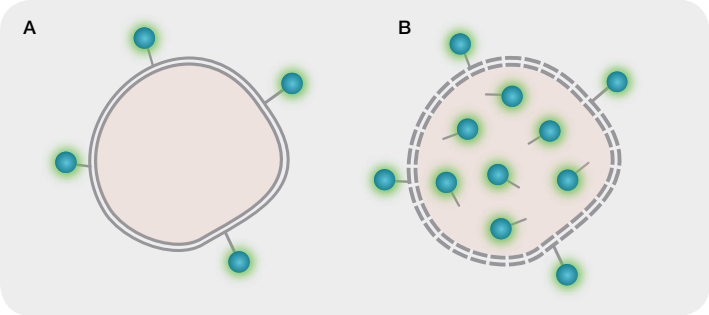
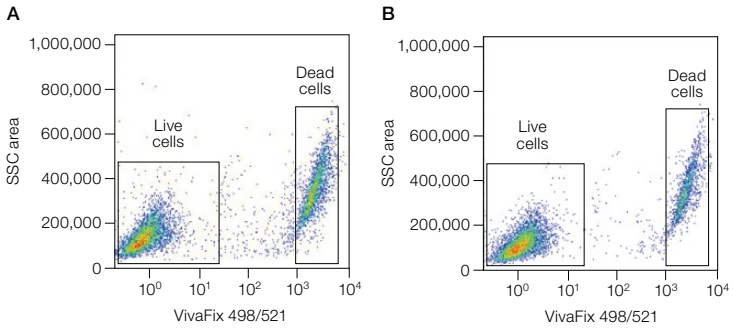
## Accurately Determine the Viability of Your Cells

Taking advantage of an array of proprietary amine reactive dyes, VivaFix Cell Viability Assays can easily assist researchers with distinguishing between live and dead cells, providing at least a 100-fold difference in fluorescence intensity between the two populations. In addition, the brightness of VivaFix dyes is preserved upon treatment with fixative agents and can be used with biohazardous samples to track cell viability after fixation.

VivaFix Assays are available in a wide range of excitation and emission spectra and can be easily combined into any multicolor experiment. Choose between eight different assays to select the most appropriate excitation/emission wavelength for your experiments.




**VivaFix Cell Viability Assay chemistry. A**, VivaFix dyes bind to the cell surface primary amines of viable cells; **B**, in dead cells, where the plasma membrane is compromised, VivaFix dyes are able to permeate the cell and also react with intracellular primary amines. As a result, a greater number of fluorophores is associated with dead cells and at least a 100-fold difference in fluorescence intensity is measured between the live and the dead cells, thereby allowing an easier discrimination between the two populations.




**Excellent separation between live and dead cells using the VivaFix Cell Viability Assay.** Jurkat cells were stained with the VivaFix 498/521 dye, fixed with 3.7% formaldehyde (**A**) or not fixed (**B**), and analyzed with the S3™ Cell Sorter. SSC, side scatter.

## Ordering Information

| Catalog Number | VivaFix Cell Viability Assay | Excitation Maximum, nm | Emission Maximum, nm | Optimal Excitation Laser, nm | Optimal Filter Set for S3 Cell Sorter |
|---|---|---|---|---|---|
| 135-1111 | VivaFix 353/442 | 353 | 442 | 355 | — |
| 135-1112 | VivaFix 410/450 | 410 | 450 | 405 | — |
| 135-1113 | VivaFix 408/512 | 408 | 512 | 405 | — |
| 135-1114 | VivaFix 398/550 | 398 | 550 | 405 | — |
| 135-1115 | VivaFix 498/521 | 498 | 521 | 488 | FL1 (525/30) |
| 135-1116 | VivaFix 547/573 | 547 | 573 | 561 | FL2 (586/25) |
| 135-1117 | VivaFix 583/603 | 583 | 603 | 561 | FL3 (615/25) |
| 135-1118 | VivaFix 649/660 | 649 | 660 | 640 | — |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*Bulletin 6559 Rev A US/EG* *14-0656 0414 Sig 1213*